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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/987,527

11/15/2001

Aseem Sethi

CSCO-013/4846

7271

26392

7590

08/15/2005

LAW FIRM OF NAREN THAPPETA
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EXAMINER

FERRIS, DERRICK W

ART UNIT

PAPER NUMBER

2663

DATE MAILED: 08/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/987,527

Applicant(s)

SETHI, ASEEM

Examiner

Derrick W. Ferris

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 15 November 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-66 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-10 and 40-56 is/are allowed.
- 6) ☐ Claim(s) 11-15, 19, 21-25, 30-34, 38, 57-61 and 65 is/are rejected.
- 7) ☒ Claim(s) 16-18, 20, 26-29, 35-37, 39, 62-64 and 66 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 15 November 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. **Claims 11-14, 19, 21-24, 30-33, 38, 57-60 and 65** are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6,515,974 B1 to *Inoue et al.* (“*Inoue*”).

As to **claim 11**, see e.g., figure 4 of *Inoue* where a server is an Internet home agent 6 and a network device is a packet relay device 4. In particular, when a mobile terminal 3 moves to a new location (e.g., Internet 2), the mobile sends out a registration packet that contains both a new and an old address (i.e., Haddr-p and Haddr-g), see e.g., column 11, lines 25-43 via “pair information”. The “pair information” is then forwarded to the relay device 4 (i.e., the network device as claimed). When the packet relay device 4 receives the “pair information” the relay device establishes a NAT table, see e.g., column 11, line 60 – column 12, line 67. Thus the server (i.e., Internet home agent 6) “configures” the packet relay device 4. Also note that the packet relay device 4 is located in a path between the mobile terminal 3 and the correspondent node (e.g., the correspondent node could be private home agent 5). In addition, with respect to correspondence node, also see e.g., column 9, lines 40-45 where the hosts (i.e., correspondence nodes) can be located anywhere on the networks.

As to **claim 12**, the packet relay device performs a routing function per se. The mapping of the NAT table entry is further described e.g., at column 11, line 60 – column 12, line 67.

As to **claim 13**, see e.g., figure 4 with respect to one hop.

As to **claim 14**, the Internet home agent 4 acts as a “proxy server”. As such, see similar rejection to the base claim and claim 13 with respect to the further limitations.

As to **claim 19**, see similar rejection to claim 11 where the proxy server as claimed is the Internet home agent 6 and the mobile sends the old and new address to the proxy server via a registration message. The address is in a new address space since different networks are used (i.e., Internet 2 and private network 1). The new address is further assigned by either DHCP or IPCP, see e.g., column 11, line 27-28.

As to **claim 21**, see similar rejection to claim 11 where the network interface is the interface for the Internet home agent 6.

As to **claim 22**, see similar rejection to claim 12.

As to **claim 23**, see similar rejection to claim 13.

As to **claim 24**, see similar rejection to claim 14.

As to **claim 30**, see similar rejection to claim 11.

As to **claim 31**, see similar rejection to claim 12.

As to **claim 32**, see similar rejection to claim 13.

As to **claim 33**, see similar rejection to claim 14.

As to **claim 38**, see similar rejection to combined claims 11 and 14.

As to **claim 57**, see similar rejection to claim 11.

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As to **claim 58**, see similar rejection to claim 12.

As to **claim 59**, see similar rejection to claim 13.

As to **claim 60**, see similar rejection to claim 14.

As to **claim 65**, see similar rejection to combined claims 11 and 14.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. **Claims 15, 25, 34, and 61** are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6,515,974 B1 to *Inoue et al.* ("*Inoue*") in view of "Mobile IP Telephony: Mobility Support of SIP" to *Moh et al.* ("*Moh*").

As such to **claim 15**, *Inoue* discloses limitations in the base claim.

Inoue is silent or deficient to the further limitation of using SIP and in particular using SIP as part of the registration method.

Moh teaches the further recited limitation above at e.g., Abstract.

The proposed modification of the above-applied reference(s) necessary to arrive at the claimed subject matter would be to modify *Inoue* by clarifying that the registration message is a SIP registration message.

As such, examiner notes that it would have been obvious to one skilled in the art prior to applicant's invention to include the above limitation. In particular, the motivation for modifying the reference or to combine the reference teachings would be to use VoIP

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using a more lightweight Internet approach. In particular, *Moh* cures the above-cited deficiency by providing a motivation found at e.g., left-hand column on page 554.

Second, there would be a reasonable expectation of success since both references use IP.

Thus the references either in singular or in combination teach the above claim limitation(s).

As to **claim 25**, see similar rejection to claim 15.

As to **claim 34**, see similar rejection to claim 15.

As to **claim 61**, see similar rejection to claim 15.

Allowable Subject Matter

5. **Claims 1-10, 40-46, and 47-56** are allowed.

6. **Claims 16-18, 20, 26-29, 35-37, 39, 62-64 and 66** are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Derrick W. Ferris whose telephone number is (571) 272-3123.

The examiner can normally be reached on M-F 9 A.M. - 4:30 P.M. E.S.T.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Ngo can be reached on (571)272-3139. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Derrick W. Ferris
Examiner
Art Unit 2663

DWF

DERRICK FERRIS
PATENT EXAMINER
8/12/2005